

Comparisons of Job Characteristics

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation: Stationary Engineers and Boiler Operators (51-8021)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	18.6	19.3	0	Current knowledge level may be sufficient
Public Safety and Security	6.9	10.6	12.0	>	Current knowledge level is likely sufficient
Engineering and Technology	5.7	10.4	10.3	0	Current knowledge level may be sufficient
Chemistry	4.8	10.0	7.6	<<	Extensive education and/or training may be required
Physics	4.3	9.6	8.8	0	Current knowledge level may be sufficient
Building and Construction	4.0	9.2	14.3	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation: Stationary Engineers and Boiler Operators (51-8021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	10.7	8.4	<	A higher skill level may be required
Operation and Control	5.4	9.6	7.6	<	A higher skill level may be required
Troubleshooting	4.5	9.2	10.0	0	Current skill level may be sufficient
Equipment Maintenance	3.5	8.5	12.7	>>	Skill level is likely more than sufficient
Repairing	3.4	8.5	12.3	>>	Skill level is likely more than sufficient
Equipment Selection	3.3	6.5	9.5	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 75			
Focus Occupation: Maintenance and Repair Workers, General (49-9042) Associated Occupation: Stationary Engineers and Boiler Operators (51-8021)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Perceptual Speed	7.4	10.7	5.8	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	10.2	11.8	>	Current ability level is likely sufficient
Selective Attention	8.7	10.1	9.4	0	Current ability level may be sufficient
Auditory Attention	5.9	9.1	6.2	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	8.3	6.2	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	7.9	7.0	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 78
Focus Occupation: Maintenance and Repair Workers, General (49-9042) Associated Occupation: Stationary Engineers and Boiler Operators (51-8021)		
Work Activities	Exclusivity of Activity	
Control HVAC equipment	89	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Install equipment or attachments on machinery or related structures	48	
Install/connect electrical equipment to power circuit	57	
Maintain or repair industrial or related equipment/machinery	39	
Use acetylene welding/cutting torch	54	
Use electrical or electronic test devices or equipment	40	
Use hand or power tools	2	
Weld together metal parts, components, or structures	54	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 82

Focus Occupation: Maintenance and Repair Workers, General (49-9042)
Associated Occupation: Stationary Engineers and Boiler Operators (51-8021)

Tools and Technologies	Exclusivity
Cleaning equipment	11
Computers	1
Content authoring and editing software	1
Cutting tools	18
Dispensing tools	6
Drilling and operation machinery	29
Electrical measuring and testing equipment	7
Forming tools	2
Heavy equipment components	21
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Network applications software	1
Personal communication devices	2
Pneumatic tools	8
Power tools	2
Pumps	9
Respiratory protection	6
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Tool attachments and accessories	12
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.